

Appl. No. 10/076,516
Amendment dated: August 4, 2003
Reply to OA of: April 3, 2003

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1(currently amended). An electron tube comprising:
at least one metal film formed on a base;
at least one linear member provided above the base; and
at least one additional member for connecting one end of said at least one linear member to said at least one metal film,

wherein said one end of said at least one linear member is connected to said at least one metal film ~~by welding said at least one additional member to said at least one metal film.~~ said one end of said at least one linear member being disposed between said at least one additional member and said at least one metal film.

2(original). The electron tube of claim 1, wherein said at least one additional member is at least one metal piece, and on the condition of interposing said at least one linear member between said at least one metal piece and said at least one metal film, said at least one linear member is fixedly attached to said at least one metal film by welding said at least one metal piece to at least one metal film.

3(original). The electron tube of claim 1, wherein said at least one additional member independently provided to said at least one linear member.

4(original). The electron tube of claim 1, wherein said at least one linear member is divided into a plurality of sets and said at least one metal film is at least one pair of metal films, each of the sets being provided with one pair of said at least one pair of metal films.

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5(currently amended). ~~The~~ An electron tube of claim 1, ~~wherein said~~ comprising:
at least one metal film formed on a base;

at least one linear member ~~is respectively~~ provided above the base and divided
into a body and a fixed portion for fixedly attaching the body to said at least one metal
film, and

said at least one additional member, member is formed on the fixed portion, for
connecting said at least one linear member to said at least one metal film, and

wherein said at least one linear member is fixed to said at least one metal film
by welding said at least one additional member to said at least one metal film.

6(original). The electron tube of claim 1, wherein said at least one linear member
is a grid and said at least one metal film is a grid electrode.

7(original). The electron tube of claim 5, wherein said at least one linear member
is a grid having a first and a second metallic member, and the second metallic member
of the grid is a said at least one additional member.

8(original). The electron tube of claim 5, wherein said at least one linear member
is a grid having metallic member and an insulating member.

9(original). The electron tube of claim 1, wherein said at least one linear member
is a cathode, and said at least one metal film is a cathode electrode.

10(original). The electron tube of claim 1, wherein said at least one linear
member serves to support a cathode, a grid or a getter.

11(original). The electron tube of claim 1, wherein said at least one linear
member is fixed to said at least one metal film under the condition that a tension force
is applied thereto.

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12(original). The electron tube of claim 1, wherein said at least one metal film is formed in a thin film.

13(original). The electron tube of claim 1, wherein the attachment of said at least one linear member is achieved by using an ultrasonic bonding.

14(original). The electron tube of claim 1, wherein said at least one metal film and said at least one additional member are made of the same metallic material to each other.

15(original). The electron tube of claim 1, further comprising at least one spacer for defining a distance between said at least one linear member and the base and wherein the electron tube is a fluorescent radiation tube.

16(original). The electron tube of claim 1, further comprising a vessel, and said base being in the vessel.

17(original). The electron tube of claim 1, further comprising a vessel including at least two substrates, and the base being the vessel.

18(withdrawn). A method for producing an electron tube comprising the steps of;
forming at least one metal film on a base;
forming at least one additional member on at least one linear member; and
fixing said at least one linear member to said at least one metal film by ultrasonic-bonding said at least one additional member to said at least one metal film.

19(withdrawn). The method of claim 18, wherein said at least one additional member is at least one metal piece, and on the condition of interposing said at least one linear member between said at least one metal piece and said at least one metal film,

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said at least one linear member is fixedly attached to said at least one metal film by welding said at least one metal piece to at least one metal film.

20(withdrawn). The method of claim 19, wherein said at least one metal piece is at least one wire for the wire bonding and said at least one wire is welded to said at least one metal film by using the ultrasonic wire bonding.

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21(withdrawn). The method of claim 18, wherein said at least one linear member is respectively divided into a body and two fixed portions for fixedly attaching the body to said at least one metal film, said at least one additional member is formed on the fixed portions, and said at least one linear member is fixed to said at least one metal film by welding said at least one additional member to said at least one metal film.

22(withdrawn). A method for producing an electron tube comprising the steps of;
forming a metal film on a vessel;
forming an additional member on a linear member; and
fixing the linear member to the metal film by diffusion-welding or solid-state-welding the additional member to the metal film.

23(withdrawn). An electron tube fabricated by employing the method of claim 18, comprising:

said at least one metal film formed on the base;
said at least one linear member provided above the base; and
said at least one additional member for connecting said at least one linear member to said at least one metal film,
wherein said at least one linear member is connected to said at least one metal film.

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24(withdrawn). A method for producing the electron tube of claim 1, comprising the steps of;

forming said at least one metal film on the base;

forming said at least one additional member on said at least one linear member;

and

fixing said at least one linear member to said at least one metal film by bonding said at least one additional member to said at least one metal film to thereby fabricating an electron tube.

25(new). The electron tube of claim 1, wherein said one end of said at least one linear member is directly connected to said at least one metal film by welding said at least one additional member to said one end of said at least one linear member located on said at least one metal film.

26(new). The electron tube of claim 1, wherein a part of said at least one linear member is a tension force applying portion for exerting a tension force.

27(new). The electron tube of claim 26, wherein the tension force applying portion has coiled shape.

28(new). The electron tube of claim 15, wherein said at least one spacer is made of a conductive material disposed on said at least one metal film.

29(new). The electron tube of claim 5, wherein said at least one linear member is a grid and said at least one metal film is a grid electrode.